

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061692

Luminaire Tested: S125RDRP-S610D835-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D835-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

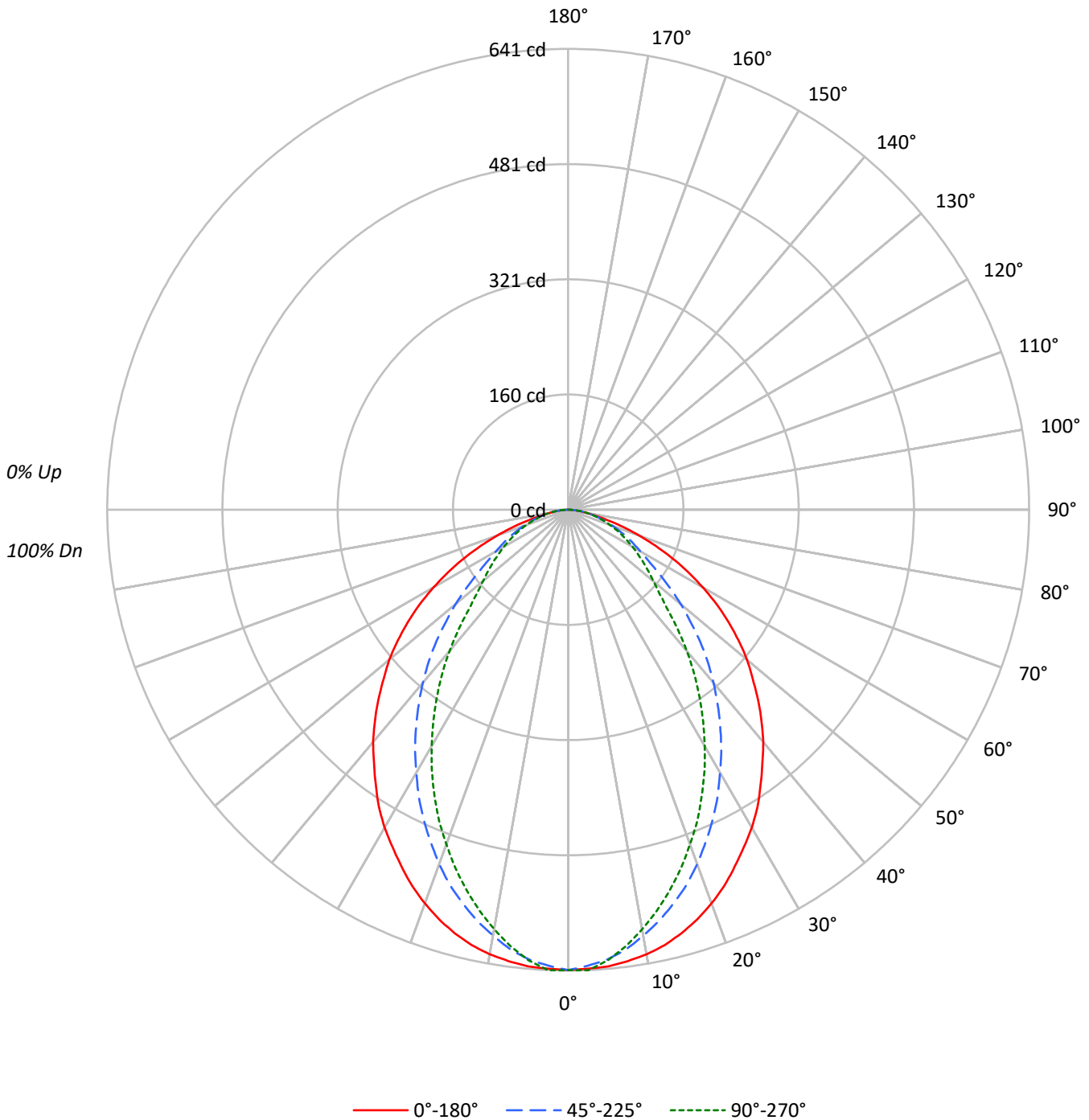
Lumens per Lamp: N/A
Luminaire Lumens: 1213.2 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77					75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67					65				
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52					50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47					45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38					36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4409	4409	4409
5°	4407	4340	4349
10°	4390	4205	4142
15°	4347	4040	3901
20°	4270	3842	3628
25°	4162	3613	3339
30°	4058	3356	3019
35°	3922	3097	2677
40°	3794	2825	2306
45°	3636	2526	1889
50°	3478	2189	1654
55°	3264	1828	1527
60°	2977	1599	1427
65°	2605	1461	1326
70°	2114	1317	1232
75°	1516	1202	1147
80°	1047	1075	1075
85°	766	932	987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3636 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	4.9
10°-20°	161.0	13.3
20°-30°	222.6	18.3
30°-40°	237.1	19.5
40°-50°	208.3	17.2
50°-60°	157.9	13.0
60°-70°	102.5	8.5
70°-80°	50.8	4.2
80°-90°	13.3	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	443.2	36.5
0°-40°	680.3	56.1
0°-60°	1046.5	86.3
0°-90°	1213.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	638	636	628	630	629	61
15°	610	596	567	554	547	172
25°	548	518	476	451	440	252
35°	467	424	368	335	318	292
45°	373	321	259	213	194	288
55°	272	218	152	131	127	243
65°	160	119	90	83	81	158
75°	57	50	45	44	43	64
85°	10	11	12	12	12	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	640.4	640.4	640.4	640.4	640.4
2.5°	639.0	640.4	634.8	639.7	641.1
5°	637.6	636.2	627.9	630.0	629.3
7.5°	633.4	630.7	616.8	615.4	612.6
10°	627.9	620.9	601.5	596.6	592.4
12.5°	620.2	609.1	585.5	575.7	570.9
15°	609.8	595.9	566.7	553.5	547.2
17.5°	597.3	577.8	547.2	529.1	522.2
20°	582.7	559.7	524.3	503.4	495.1
22.5°	566.7	539.6	499.9	477.7	468.7
25°	547.9	518.0	475.6	451.3	439.5
27.5°	529.1	495.8	449.9	422.8	410.2
30°	510.4	472.1	422.1	392.9	379.7
32.5°	490.2	447.8	396.3	364.4	349.1
35°	466.6	423.5	368.5	335.2	318.5
37.5°	443.6	397.7	341.4	303.9	287.9
40°	422.1	373.4	314.3	273.3	256.6
42.5°	397.7	347.7	287.2	244.1	225.3
45°	373.4	321.2	259.4	212.8	194.0
47.5°	347.7	296.2	230.2	184.3	171.7
50°	324.7	270.5	204.4	162.7	154.4
52.5°	298.3	245.5	178.0	146.0	140.5
55°	271.9	218.3	152.3	131.4	127.2
57.5°	244.8	194.0	132.1	118.9	114.7
60°	216.2	169.0	116.1	105.7	103.6
62.5°	187.7	143.2	102.2	94.6	91.8
65°	159.9	118.9	89.7	82.7	81.4
67.5°	131.4	96.7	77.2	72.3	71.6
70°	105.0	78.6	65.4	62.6	61.2
72.5°	80.7	62.6	54.9	52.8	52.2
75°	57.0	50.1	45.2	43.8	43.1
77.5°	38.2	38.2	36.2	34.8	35.5
80°	26.4	27.8	27.1	27.1	27.1
82.5°	17.4	18.8	19.5	19.5	19.5
85°	9.7	11.1	11.8	11.8	12.5
87.5°	3.5	4.2	4.9	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.71	17.20	16.07	17.51	17.83	11.95	13.44	12.31	13.75	14.07
	3H	17.02	18.36	17.40	18.68	19.05	13.53	14.87	13.91	15.20	15.56
	4H	17.39	18.64	17.79	18.99	19.37	14.13	15.39	14.54	15.74	16.12
	6H	17.56	18.72	17.98	19.09	19.48	14.61	15.76	15.02	16.13	16.52
	8H	17.60	18.70	18.03	19.09	19.49	14.77	15.87	15.19	16.26	16.66
	12H	17.61	18.67	18.04	19.05	19.48	14.88	15.93	15.31	16.31	16.74
4H	2H	15.82	17.07	16.22	17.42	17.80	12.61	13.86	13.01	14.21	14.59
	3H	17.31	18.35	17.72	18.75	19.15	14.39	15.43	14.80	15.83	16.23
	4H	17.78	18.72	18.22	19.13	19.57	15.11	16.04	15.54	16.46	16.90
	6H	18.07	18.88	18.53	19.32	19.78	15.70	16.51	16.16	16.95	17.41
	8H	18.14	18.89	18.60	19.34	19.81	15.91	16.66	16.37	17.11	17.57
	12H	18.18	18.85	18.66	19.33	19.80	16.06	16.74	16.54	17.21	17.69
8H	4H	17.87	18.62	18.33	19.07	19.54	15.42	16.18	15.89	16.62	17.09
	6H	18.23	18.85	18.73	19.35	19.82	16.13	16.75	16.63	17.25	17.72
	8H	18.35	18.91	18.86	19.42	19.91	16.41	16.97	16.92	17.48	17.97
	12H	18.43	18.93	18.94	19.42	19.99	16.64	17.13	17.15	17.63	18.19
12H	4H	17.86	18.54	18.34	19.02	19.49	15.45	16.12	15.93	16.60	17.07
	6H	18.23	18.79	18.75	19.30	19.79	16.18	16.74	16.69	17.25	17.74
	8H	18.39	18.89	18.90	19.38	19.95	16.52	17.01	17.03	17.50	18.07